

FIG. 1

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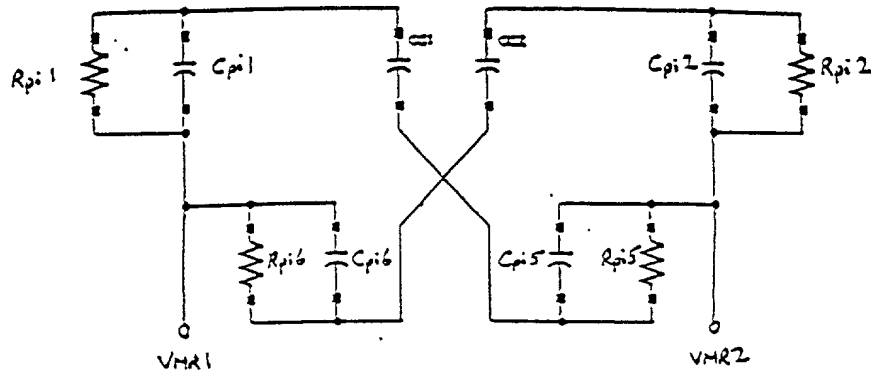
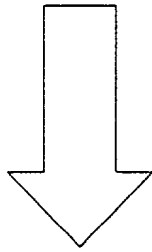


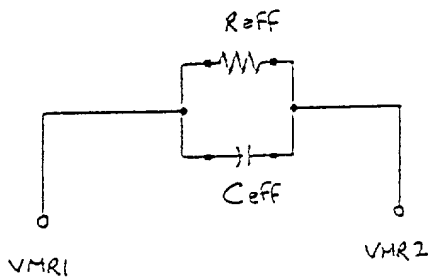
FIG. 2a

## Equivalent Input Circuit

$$\begin{aligned} CC1 &>> C_{pi1} \text{ \& } CC1 >> C_{pi2} \\ CC2 &>> C_{pi1} \text{ \& } CC2 >> C_{pi2} \\ CC1 &>> C_{pi5} \text{ \& } CC1 >> C_{pi6} \\ CC2 &>> C_{pi5} \text{ \& } CC2 >> C_{pi6} \end{aligned}$$



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$$\begin{aligned} R_{eff} &= R_e \parallel R_{pi1} \simeq R_e \\ C_{eff} &= (3 \cdot C_{pi1})/2 \end{aligned}$$

FIG. 2b

## Simplified Circuit

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↙

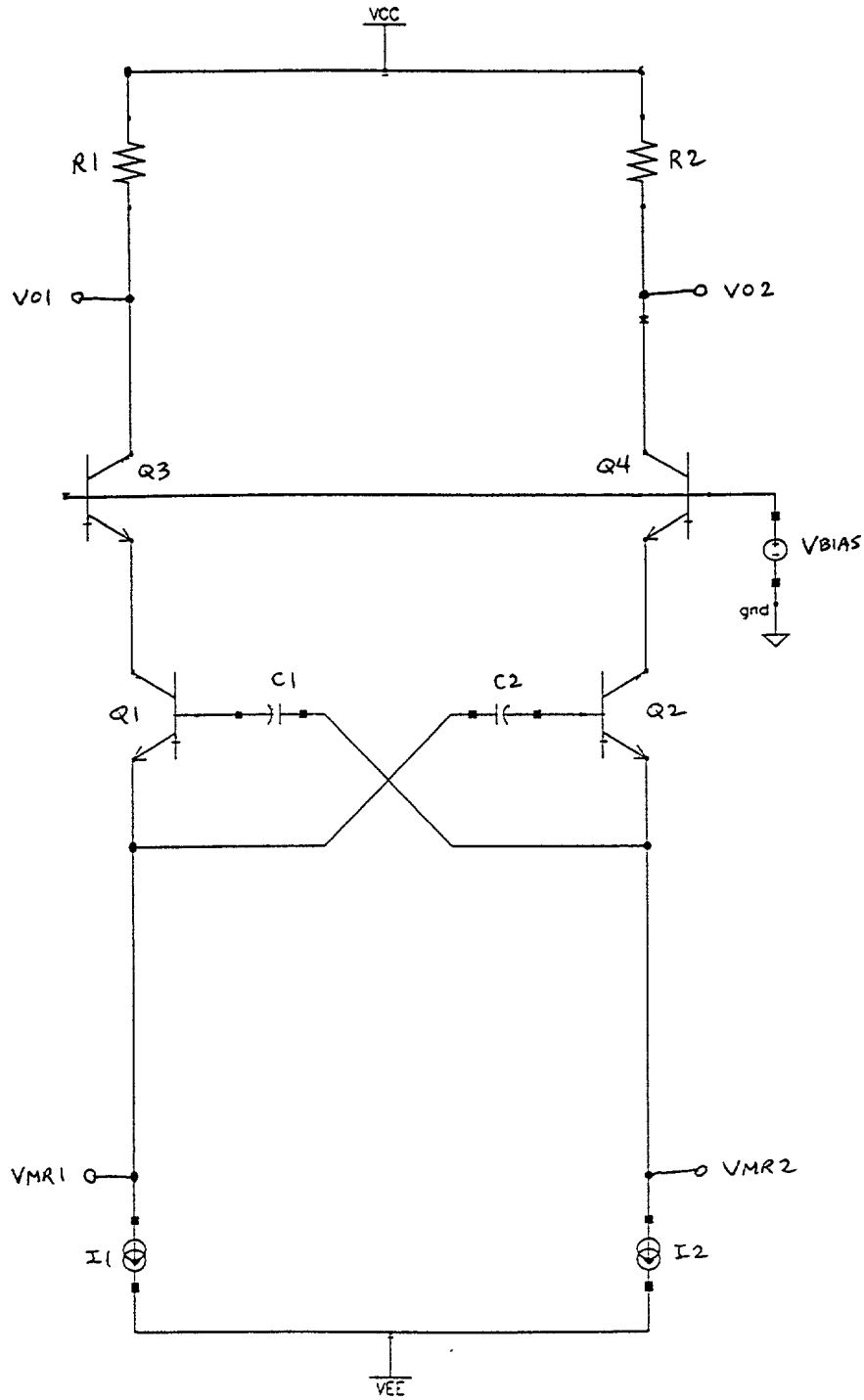


FIG. 3

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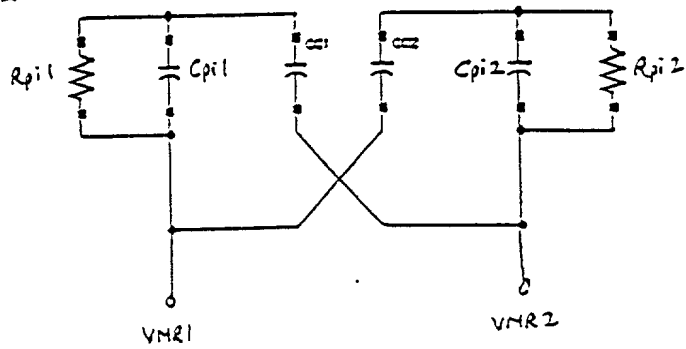
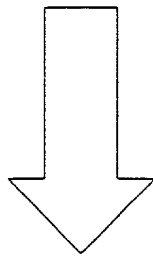


FIG. 4a

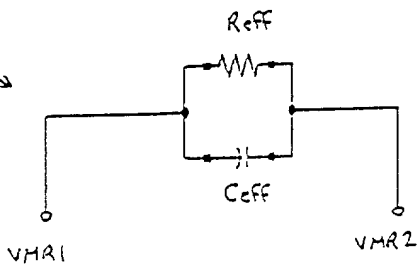
PRIOR ART

Equivalent Input Circuit

$$\begin{aligned} CC1 &\gg C_{pi1} \text{ \& } CC1 \gg C_{pi2} \\ CC2 &\gg C_{pi1} \text{ \& } CC2 \gg C_{pi2} \end{aligned}$$



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$$\begin{aligned} R_{eff} &= R_e \parallel R_{pi1} \simeq R_e \\ C_{eff} &= 2 \cdot C_{pi1} \end{aligned}$$

FIG. 4b

PRIOR ART

Simplified Circuit

# FREQUENCY RESPONSE

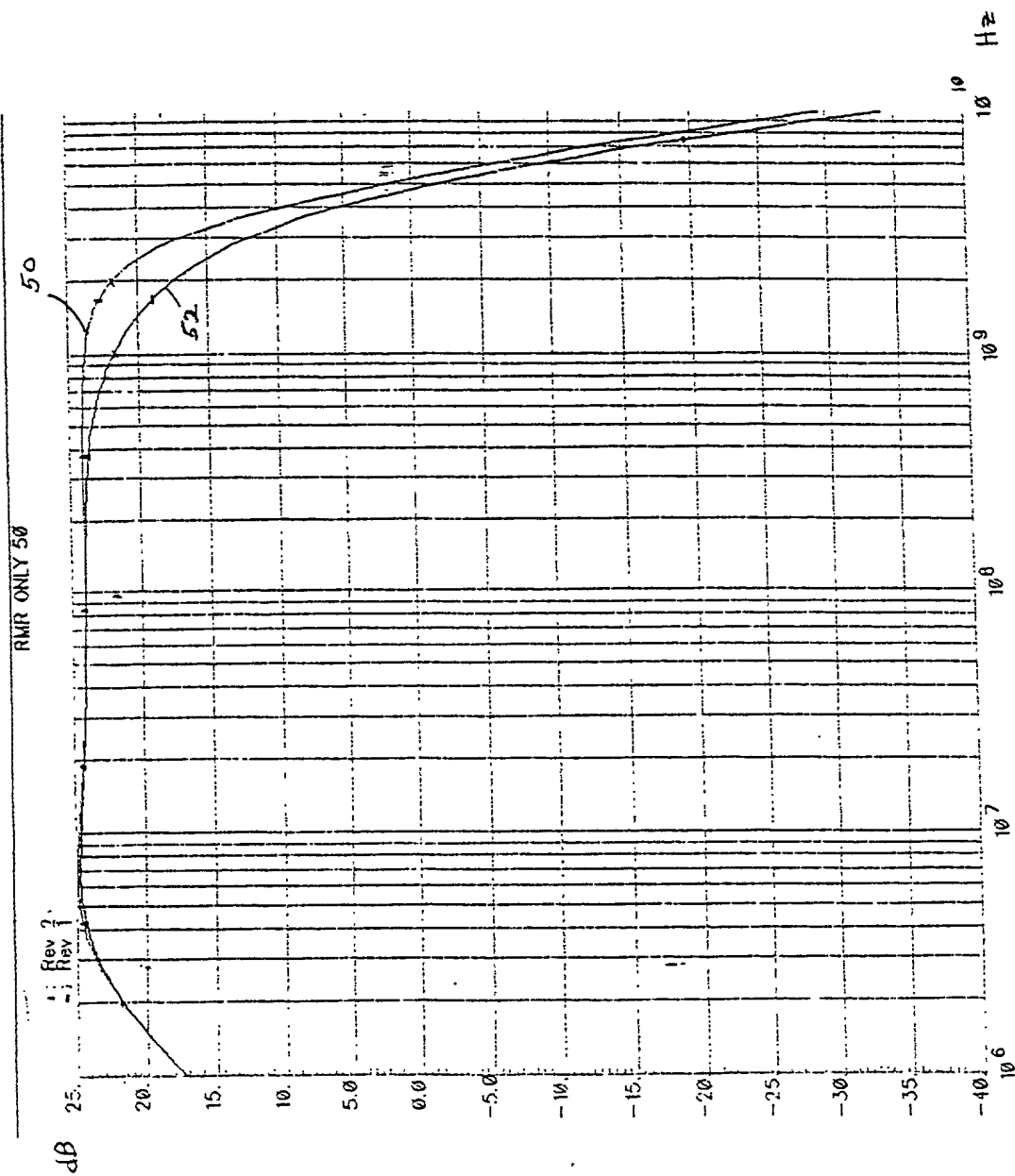


FIG. 5

# NOISE

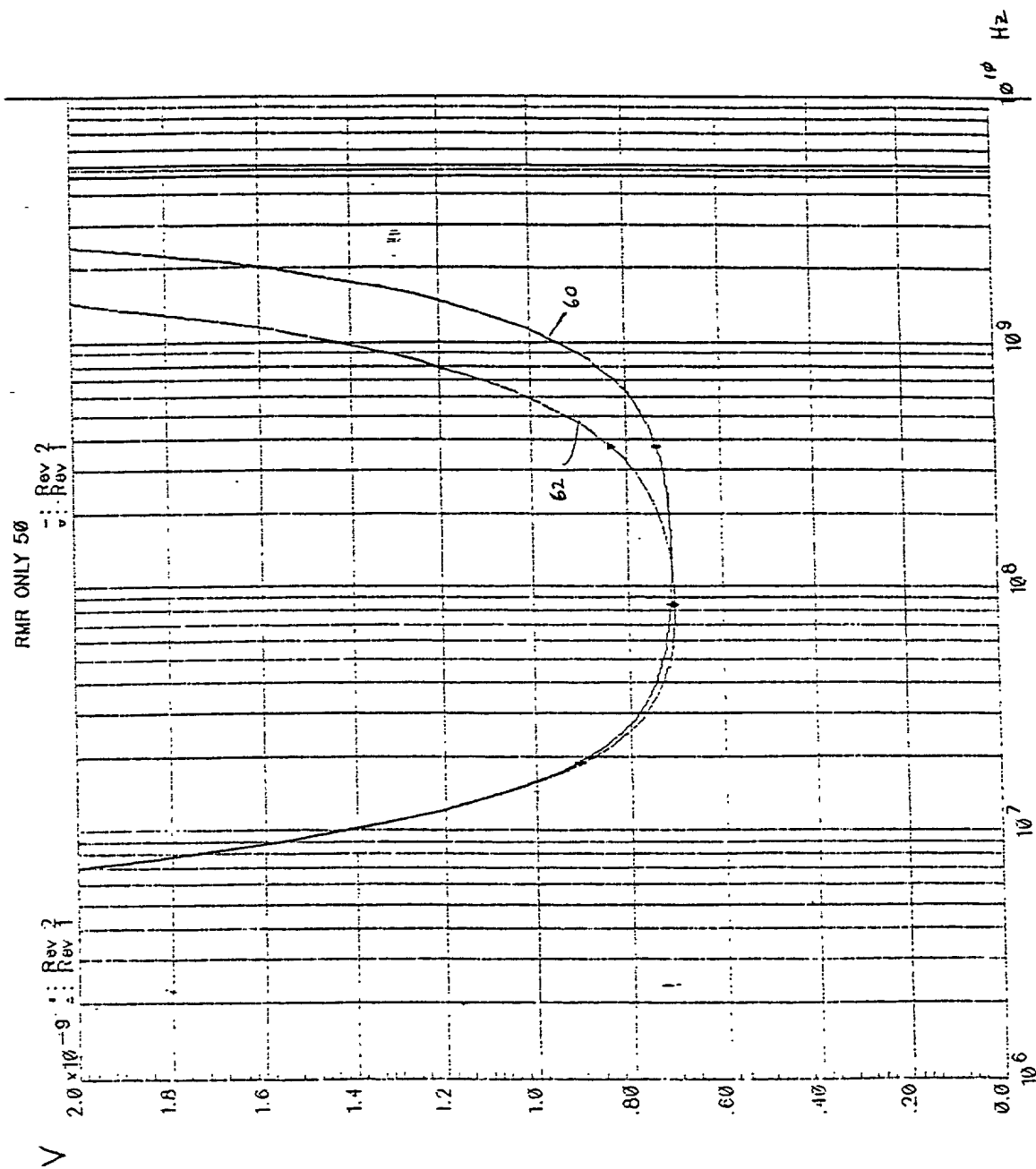


FIG. 6